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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/026,144	12/21/2001	Christiaan M.H. Mets	120 02220 US	8222
128 7590 02/05/2007 HONEYWELL INTERNATIONAL INC.			EXAMINER	
101 COLUMBIA ROAD			PADMANABHAN, KAVITA	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

•	Application No.	Applicant(s)				
	10/026,144	METS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kavita Padmanabhan	2161				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION (6(a). In no event, however, may a reply be time ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 No	ovember 2006.					
	action is non-final.					
3) Since this application is in condition for allowan) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims	•					
4)⊠ Claim(s) <i>3-12,15-24 and 26-28</i> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>3-12,15-24 and 26-28</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	•					
9) The specification is objected to by the Examiner	·.					
10)⊠ The drawing(s) filed on <u>26 May 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcti	= · ·					
11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	, ,				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

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DETAILED ACTION

Status of Claims

- 1. Claims 1, 2, 13, 14, and 25 have been canceled.
- 2. Claims 3-8, 10, 12, 15-17, 19, 20, 22, and 24 have been amended.
- 3. Claims 26-28 have been added.
- 4. Claims 3-12, 15-24, and 26-28 are pending.
- 5. Claims 3-12, 15-24, and 26-28 are rejected.

Continued Examination Under 37 CFR 1.114

6. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/20/06 has been entered.

Claim Objections

7. Claims 26-28 are objected to because of the following informalities:

In regards to **claim 26**, it is suggested that the applicant rephrase section (a) of the claim to recite "to identify, in response to input data entered by a user, one or more events...".

In regards to claim 27, it is suggested that the applicant rephrase section (a) of the claim to recite "identifying, in response to input data entered by a user, one or more events...", rephrase section (b) of the claim to recite "classifying said identified events...", rephrase section (c) of the claim to recite "organizing separate storage volumes...", rephrase section (d) of the

claim to recite "using said data structure...", and rephrase section (e) of the claim to recite "providing said retrieved output data...".

In regards to **claim 27**, it is suggested that the last line of the claim, which recites "of said database by said identified activities, events and attributes thereof", be deleted as it appears to be a typographical error.

In regards to **claim 28**, it is suggested that the applicant denote the 1st limitation with an "(a)" to be consistent with the other independent claims. It is further suggested that the applicant rephrase the first limitation of the claim to recite "one or more first program instructions that control said computer to identify, in response to input data entered by a user, one or more events…".

In regards to claims 26-28, it is suggested that the phrase "access of said database" be changed to recite --access to said database-- in section (d) of the claims.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

8. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

9. Claims 3-12, 15-24, and 26-28 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

With respect to **claims 26-28**, there does not appear to be support in the applicant's specification for "collecting with a monitor said *output data* of an industrial process and providing said *output data* to said computer" or for the other recitations of output data throughout the claims. Furthermore, while the applicant has directed the examiner to portions of the specification that allegedly contain support for the newly amended limitations, such support is not readily found therein.

Also with respect to **claims 26-28**, there does not appear to be support in the applicant's specification for the limitation "to organize *separate storage volumes of said database* for said classified attribute types". Furthermore, while the applicant has directed the examiner to portions of the specification that allegedly contain support for the newly amended limitations, such support is not readily found therein.

With respect to **claims 3 and 15**, there does not appear to be support in the applicant's specification for the limitation "another storage volume of said database is organized for a first one of said identified events". The applicant has also not directed the examiner to portions of the applicant's original specification that might provide support for such a limitation.

With respect to **claims 7 and 19**, there does not appear to be support in the applicant's specification for the limitation "one defined *attribute type corresponding to a first one of said storage volumes* are static". The applicant has also not directed the examiner to portions of the applicant's original specification that might provide support for such a limitation.

10. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

11. Claims 3-12, 15-24, and 26-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In regards to **claims 26-28**, the phrase "attributes thereof", recited in sections (a) and (d) of the claims, renders the claims unclear, in that it is not clear what the term "thereof" is referring to. In other words, it is unclear whether the applicant is intending to claim attributes of the events and/or activities, attributes of the industrial process, or even attributes of the database.

Claims 26-28 recite the limitation "said identified events, activities and attributes" in section (b) of the claims. There is insufficient antecedent basis for this limitation in the claim since section (a) recites "events and/or activities".

In regards to claims 26-28, section (d) of the claim, reciting "to use said data structure in a manner that permits access of said database by said identified activities, events and attributes thereof to store said output data in said storage volumes according to said data structure and in response to a request to retrieve that output data that corresponds to at least one of said identified activities, events or attributes that is includes in said request" renders the claims unclear. It is unclear how the data structure is used to permit access to the database by activities, events, and attributes to store data in response to a request to retrieve data.

Claims 3 and 15 recite the limitation "another storage volume" in line 2 of the claims.

There is insufficient antecedent basis for this limitation in the claims, since the claims from which these claims depend do not recite a first storage volume.

Claims 4 and 16 recite the limitation "wherein at least one attribute of a plurality of said events and/or activities is common to at least one of said defined attribute types". It is unclear how one attribute could be common to one attribute type.

The examiner will apply prior art to this claim as best understood in light of the above rejections.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 13. Claims 3-12, 15-24, and 26-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Goldring (US 5,613,113).

In regards to claim 26, Goldring teaches a method for using a computer to define, store and retrieve output data of an industrial process, said method comprising:

collecting with a monitor said output data of said industrial process and providing said output data to said computer (Goldring; col. 1, lines 38-41; col. 3, lines 27-31 - "computer" process that involves a sequence of events would be a commercial order filling or banking system" and "correlate events in an activity log with time series data of interest" - constitutes collecting and operating on data of an industrial process in that the data pertains to the "commercial industry" or the "banking industry.");

operating said computer with a program

- (a) in response to input data entered by a user to identify one or more events and/or activities and one or more attributes thereof of said industrial process (Goldring; col. 3, lines 36-58; col. 5, lines 53-56 "identifying the recorded events having the characteristic of interest" and "user can interactively communicate with the data base manager");
- (b) to classify said identified events, activities and attributes according to a data structure that comprises at least one event type or at least one activity type and a plurality of attribute types (Goldring; col. 8, line 60 col. 9, line 14; Fig. 3 figure 3 shows a data structure having event types, such as update events, and a plurality of attribute types, such as event name and RBA);
- (c) to organize separate storage volumes of said database for said classified attribute types (Goldring; col. 5, lines 2-23 "the mainframe computer 12 includes a data base comprising a plurality of data tables 26 including user tables 28 defined by the users");
- (d) to use said data structure in a manner that permits access of said database by said identified activities, events and attributes thereof to store said output data in said storage volumes according to said data structure and in response to a request to retrieve that output data that corresponds to at least one of said identified activities, events or attributes that is included in said request (Goldring; col. 5, lines 2-23, 48-59; col. 6, lines 18-20; col. 9, lines 52-60; Fig. 3 "If the activity log is later consulted, the time stamp values can be located with their corresponding transaction sequence numbers and accessed by users." events

and attributes are stored in the database tables and are retrieved based on user requests); and

(e) to provide said retrieved output data to a client device (Goldring; col. 5, lines 48-59; col. 9, lines 52-60; Fig. 3 – "The data base manager 30, for example, can comprise a software process that operates in accordance with Structures Query Language (SQL) requests", "provides an interface for the users. A user can interactively communicate with the data base manager", and "when a user requests a snapshot copy" – data is retrieved from database and provided to user).

In regards to claim 3, Goldring teaches the method of claim 26, wherein said data structure further comprises a time stamp (Goldring; Fig. 3), wherein another storage volume of said database is organized for a first one of said identified events, and wherein said other storage volume is accessed according to said time stamp for storage and retrieval of said attributes corresponding to said first event (Goldring; col. 5, lines 40-44; col. 6, lines 18-20; Fig. 3).

In regards to claim 4, Goldring teaches the method of claim 26, wherein at least one attribute of a plurality of said events and/or activities is common to at least one of said defined attribute types, and wherein said at least one storage volume of said database is allocated to all of said common attributes (Goldring; col. 8, line 60 – col. 9, line 14; Fig. 3; Fig. 2, reference characters 25, 32).

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In regards to claim 5, Goldring teaches the method of claim 26, further comprising compressing said output data which is stored in a first one of said storage volumes according to identity of values of said output data of said attributes of consecutive events and/or activities that have been allocated for storage in said first one of said storage volumes (Goldring; col. 7, lines 20-61 – data of activity log is compressed and placed in the system tables based on the values of the event attributes).

In regards to claim 6, Goldring teaches the method of claim 5, wherein said data structure further comprises a time stamp (Goldring; Fig. 3), and wherein said first one of said storage volumes is accessed according to said time stamp for storage and/or retrieval of said values of said output data, and wherein said values of said output data of a first event are retrieved from said first storage volume by using a value of a first time stamp for said first event or of a second time stamp value of a second one of said events that is earlier in time than said first time stamp value (Goldring; col. 5, lines 40-44; col. 6, lines 18-20; Fig. 3).

In regards to claim 7, Goldring teaches the method of claim 26, wherein said attributes of at least one defined attribute type corresponding to a first one of said storage volumes are static, and further comprising optimizing data storage in said first one of said storage volumes by omitting storage of a static value (Goldring; col. 5, lines 7-16; col. 5, line 67 – col. 6, line 6 – doesn't store the other attributes related to the user table that changed – only the update and the sequence number, because the others didn't change, and are therefore static).

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In regards to **claim 8**, **Goldring** teaches the method of claim 26, wherein said industrial process is one of a plurality of industrial processes, and wherein said program operates said computer each of said plurality of processes using said data structure (**Goldring**; **col. 1**, **lines 25-52**; **col. 6**, **lines 26-29**).

In regards to claim 9, Goldring teaches the method of claim 8, wherein at least two of said plurality of industrial processes are different from one another (Goldring; col. 1, lines 25-52; col. 6, lines 26-29).

In regards to claim 10, Goldring teaches the method of claim 26, further comprising presenting data values of different ones of said events and/or activities that are defined as different event and/or activity types in any one of a plurality of formats to said client device (Goldring; col. 6, lines 18-20; col. 5, lines 48-59; col. 9, lines 52-60; Fig. 3).

In regards to claim 11, Goldring teaches the method of claim 10, wherein said plurality of formats are selected from the group consisting of: row format, column format and chart format (Goldring; Fig. 3).

In regards to claim 12, Goldring teaches the method of claim 26, further comprising developing a map structure for mapping diverse external names of said attributes and/or field contents thereof to a common internal attribute name and/or field content (Goldring; col. 5, lines 30-31; col. 5, line 59 – col. 6, line 6; col. 6, lines 54-65; Fig. 3; Fig. 4; – updates, regardless of

what type or how they are referred to externally, by a user for example, are internally stored as update operations; also, a table constitutes a map structure).

Claims 27 and 15-24 are rejected with the same citations given for claims 26 and 3-12, respectively.

Claim 28 is rejected with the same citations given for claim 26.

Response to Amendment

- 14. Applicant's amendment filed 11/20/06 with respect to the specification and the drawings have been fully considered. The corresponding objections to the specification and the drawings have been withdrawn accordingly.
- 15. Applicant's amendments filed 11/20/06 with respect to the 35 U.S.C. 101 rejections have been fully considered. The corresponding rejections have been withdrawn accordingly.

Response to Arguments

16. Applicant's arguments filed 11/20/06 with respect to the prior art rejections have been fully considered but they are not persuasive.

Applicant argues at 12 of applicant's remarks that Goldring does not teach the combination of the monitor that collects the output data of an industrial process and the activity, event and attribute input data entered by a user. The examiner respectfully disagrees and refers the applicant to the rejections above. The examiner asserts that Goldring does indeed teach collecting with a monitor said output data of said industrial process and providing said output data to said computer (Goldring; col. 1, lines 38-41; col. 3, lines 27-31). Goldring teaches

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recording activity, event, and attribute data from an industrial process, for example, the "commercial industry" or the "banking industry", which involves monitoring and collecting the data in order to record it and organize it in a database.

Conclusion

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Kavita Padmanabhan** whose telephone number is **571-272-8352**. The examiner can normally be reached on Monday-Friday, 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Apu Mofiz can be reached on 571-272-4080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kavita Padmanabhan Assistant Examiner AU 2161 February 1, 2007

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